



Combat Training Center Instrumentation System Modernization (CTC-IS MOD)

Industry Day

1-2 March 2011

Agenda



- 0730 – PM TRADE Introduction
- 0745 – CTC-IS Mod Overview
- 0800 – Engineering Overview
- 0830 – Information Assurance
- 0845 – Contracts Overview
- 0915 – Q&A
- 1015 – Break for One-on-Ones



PM TRADE Opening Comments

CTC-IS Mod Industry Day

1 March 2011

PM Training Devices (TRADE)





PEO STRI

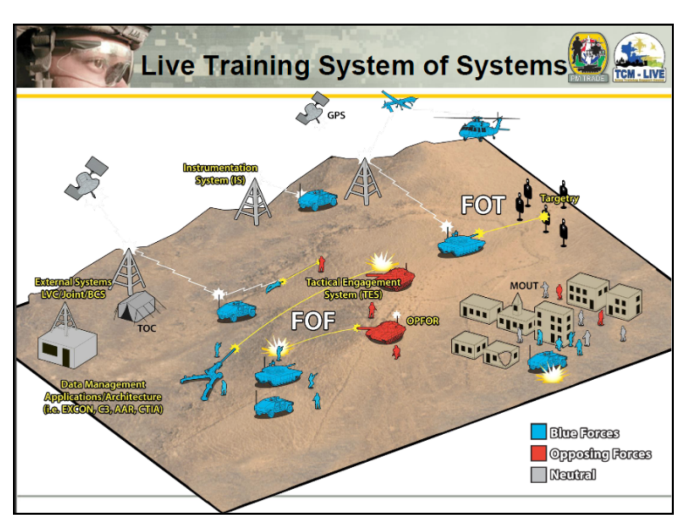
MISSION:
Provide Simulation, Training and Testing Capabilities for the Nation's Security.
800+ people, $3B annually



4 CSL Commands, 3 APMs

207 (9/146/52)
$1.4B OPA (FY11-15)
$114M RDTE (FY11-15)
$332M WCLS* (FY11)

Products



y Training Concept – Must Integrate/Synchronize with other Materiel Developers



USMC:
Working collaboration on Live Trng



Constructive:
- Lead for LVC-IA



Virtual
1st Embedded Trng on Abrams/Bradley



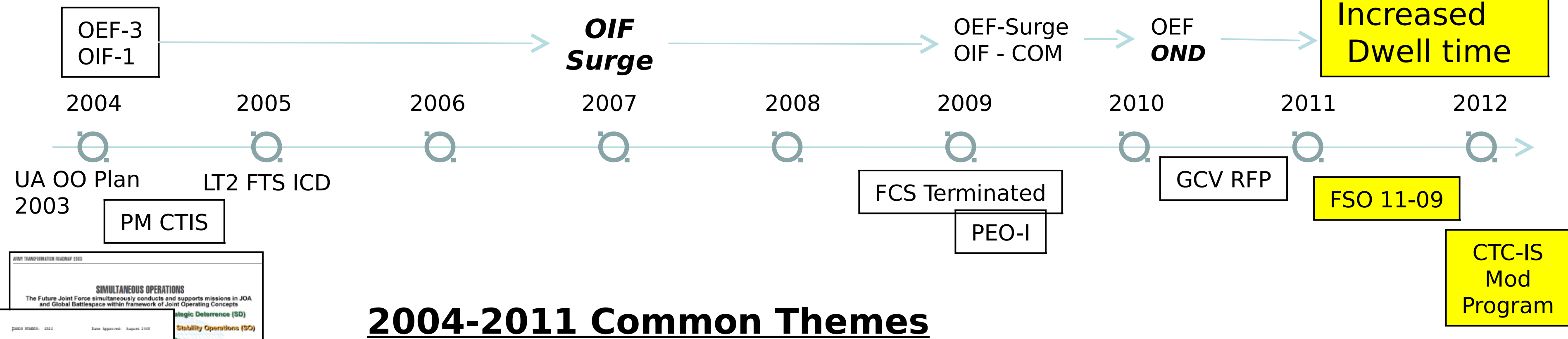
Test
Common req'ts, potentially common solutions



Sustainment
- Vast data on fielded systems
- Potential long term savings in LCM

PM Training Devices (TRADE)





2004-2011 Common Themes

- Full Spectrum Operations
- Enable L-V-C Training Environment
- Deployed Training Capability
- Common Architecture, Standards…
- Training Network…



What has CHANGED?

- Super-sized Programs failed (FCS, One TESS, OT-TES…)
- Budget bubble burst (no more OCO$)
- Dwell time at Home Station will Increase!!!
- **Efficiency Imperative**!!!


LT2 Portal 3.0 - Microsoft Internet Explorer provided by U.S. ARMY PEOSTRI
https://www.lt2portal.org/Home/tabid/180/Default.aspx
Live Search
File Edit View Favorites Tools Help
LT2 Portal 3.0
Page Tools
U.S.ARMY
LIVE TRAINING COMMUNITY
PM TRADE
TCM - LIVE
HOME
WELCOME
NEWS/EVENTS
PRODUCTS
STANDARDS
REFERENCES
DEVELOPERS
PM TOOLS
SUPPORT
LOGIN
REGISTER
LOGIN
USER NAME
PASSWORD
Login
Register
WELCOME
NEWS/EVENTS
PRODUCTS
STANDARDS
REFERENCES
DEVELOPERS
PM TOOLS
SUPPORT
FEEDBACK
HITS EXCON Industry Day
CTC-IS Mod Industry Day
AUSA ILW Sym & Expo
Done
Internet
100%
Start
Inbox - Microsoft Outlook
HITS EXCON 2011 Ind...
Document1 - Microsoft...
Hardware installation
LT2 Portal 3.0 - Micr...
1:25 PM

PM Training Devices (TRADE)



VISION: ***To be the <u>first-choice</u> provider of innovative Live Training solutions for the Warfighter <u>and Coalition Partners.</u>***







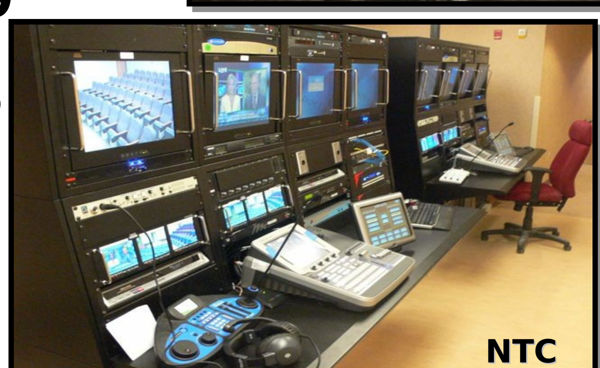
Ft. Benning

MISSION: ***<u>Lifecycle management</u> of collective Live Training capabilities that are interoperable with Virtual and Constructive simulations for use at Homestations, Maneuver Combat Training***









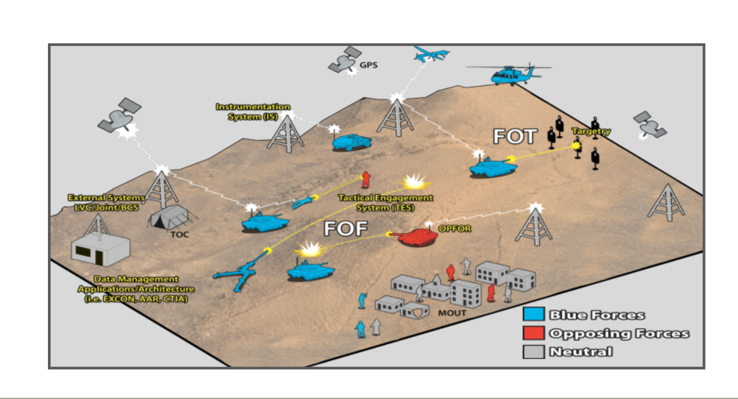


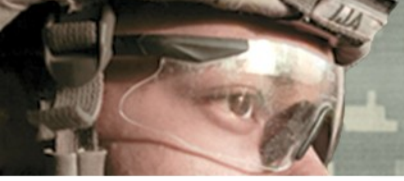
PM TRADE Future Competitions



PM CTIS

PROGRAM	RFP RELEASE	AWARD DATE
HITS EXCON	~~01/31/2011~~ 04/11/2011	~~06/03/2011~~ 08/31/2011
CTC-IS Mod	04/01/2011 07/2011	12/10/2011 03/2012
IRS	09/17/2011 09/24/2010 Released	01/28/2010 03/25/2011





Homestation Instrumentation Training System EXCON (HITS



Description/Summary of Program Requirements

Provides deployable instrumented training capability to support platoon thru battalion level Live collective Force-on-Force maneuver training. HITS tracks locations of soldiers and vehicles and simulates weapons effects, allowing units to Train as they Fight against living opponents. HITS provides accurate feedback to training units. HITS consists of deployable components that can be rapidly assembled/disassembled and transported to support deployed training. HITS is integrated with legacy and future TES. HITS provides the Live domain for Live-Virtual-Constructive training integration.

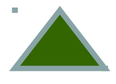
Acquisition Strategy

- 8(a) Competitive Competition outside of STOC
- Firm Fixed Price

Period of Performance

- Base year award with 4 option years
- Qty: 14 sites

Milestones



04/11/2011	08/31/2011
RFP Release	Contract Award

Point of Contact

Name: Mike Chura

Organization: PEO STRI / PM TRADE

Phone: (407) 384-5280

Email: michael.chura@us.army.mil

Funding

- OPA FY11-15:
  - o HITS EXCON Contract
  - o Maximum 25 Systems procured over Contract life

Current Contract/Original Developer/OEM (if recompete)

HITS Proof of Concept RD Phase completed by a single contractor in support of HITS Build to Print Productions Contract. First system built by IPKEYS, a SBA 8(a) Program Participant.

Interim Range Systems (IRS)



Description/Summary of Program Requirements

PEO STRI Project Manager for Training Devices (PM TRADE) is fielding several systems that require an Interim Range Systems, including but not limited to the Homestation Instrumentation Training System (HITS) and the Exportable Training Capability – Instrumentation System (ETC-IS). PM TRADE has a requirement to procure up to seven (7) Range Systems over the next four years; PM TRADE will not fund any development under this effort. This effort includes production and shipping of the network infrastructure and radio player units, individual and vehicle mounting kits, logistics data, spares, manuals, New Equipment Training, demo, acceptance test, and technical support to the LT2 system production vendors.

Acquisition Strategy

- STOC II
- Full open Competition
- Firm Fixed Price

Period of Performance

- Base year award with 3 option years

Milestones

09/24/2010	03/25/2011
RFP Release (Released)	Contract Award

Point of Contact

Name: Mr. Mark Dasher

Organization: PEO STRI / PM TRADE

Phone: (407) 384-5470

Email: mark.c.dasher@us.army.mil

Funding

- OPA FY 10 – 13: $50 Million

Current Contract/Original Developer/OEM (if recompete)

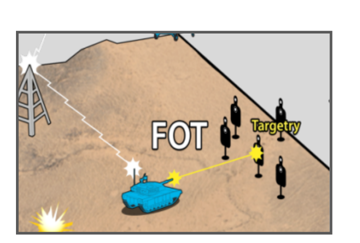
- None

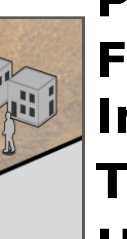


PM TRADE Future Competitions



PM DT





PROGRAM	RFP RELEASE	AWARD DATE	
CARTS IDIQ			
Range Data System	1QTRFY11 (Released 01/06/2011)	2QTRFY11	
Standard Silhouettes (Modular Design)	2QTRFY11	3QTRFY11	Pending CRA Resolution
~~PDSS for Ranges~~	~~2QTRFY11~~	~~3QTRFY11~~	
Fuel Cell Integration	3QTRFY11	4QTRFY11	Pending CRA Resolution
Trackless Movers	3QTRFY11	4QTRFY11	Pending CRA Resolution
HITS Sensor	3QTRFY11	4QTRFY11	Pending CRA Resolution
TRACR PDSS	3QTRFY11	4QTRFY11	

BES — Schedule pending CRA Resolution

ABOVE RFPs WILL BE COMPETED WITHIN THE AWARDED CARTS IDIQ



Common Army Ranges and Target Systems (CARTS) awarded IDIQ



Description/Summary of Program Requirements

The CARTS IDIQ contracts provides a contractual vehicle to support the fabrication, integration, deployment, and maintenance of components in support of training ranges, both as integral components of larger ranges, or integrated entireties of smaller ranges, FASIT and non-FASIT target systems and components, Subject Matter Experts (SMEs) and engineering services .

LOT I – RANGE DEVICES
LOT II – RANGE SYSTEMS, ENGINEERING, AND INTEGRATION
LOT III – TARGET SILHOUETTES
LOT IV – NON-PERMANENT -LIVE FIRE TRAINING FACILITIES

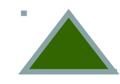
Acquisition Strategy

- LOTS 1 & II for Full & Open Competition
- LOTS III & IV for Small Business

Period of Performance

- Base Award plus 4 Option Years

Milestones



Contract Award

IDIQ Awarded 10 Sep 2010

Point of Contact

Name: Randi Kahl

Organization: PEO STRI / PM TRADE

Phone: (407) 384-5194

Email: randi.kahl@us.army.mil

Funding

Contract Type – FFP, Cost Reimbursement (CPFF, CPIF), and T&M

Contract Ceiling: $400M

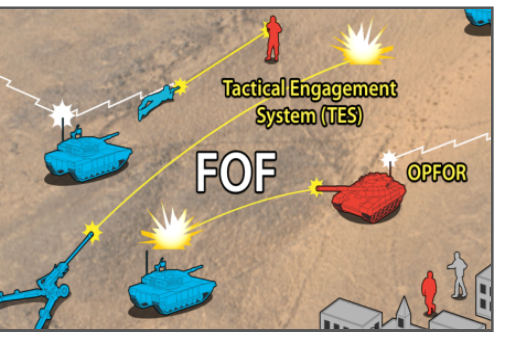
Current Contract/Original Developer/OEM (if recompete)

PM TRADE Future Competitions



PM LTS

PROGRAM	*RFP RELEASE*	*AWARD DATE*
I-MILES SLM	~~**01/14/2011**~~ 03/15/2011	~~**07/14/2011**~~ 07/22/2011
I-MILES CVTESS	~~**12/13/2010**~~ Released 01/26/2011	~~**06/29/2011**~~ 07/29/2011
I-MILES IWS	~~**01/10/2011**~~ 03/07/2011	~~**05/01/2011**~~ 07/15/2011
IWS EFO	~~**09/23/2010**~~ Released 09/30/2010	~~**12/01/2010**~~ 03/09/2011
ITAS TESS	~~**03/26/2010**~~ Released	**04/12/2011**

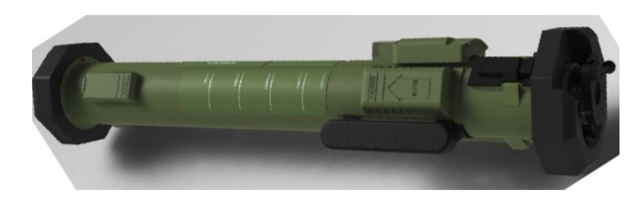


I-MILES Shoulder Launched Munitions (SLM) Re-compete

PM TRADE

Description/Summary of Program Requirements





I-MILES Shoulder Launched Munitions (SLM) Re-compete Training system program to be used by BLUFOR and OPFOR soldiers in a Force-On-Force environment to replicate the AT4 and Bunker Defeat Munitions (BDMs) by the BLUFOR and the RPG-7, Panzerfaust, RPG-29, RPG-27, and Eryx by the OPFOR. The re-compete follows a similar Engine/ VISMOD (Visual Modifications) concept as the legacy contract where a common engine is utilized for each type of VISMOD fielded. All items fielded under the re-compete will be compatible with the existing engine and VISMODs fielded under the legacy SLM contract from 2007-2010.

Acquisition Strategy

- Competitive STOC II Award
- Firm Fixed Price
- Base Award w/ Option Lots

Period of Performance

- Base year award with 4 option years
- Qty: 2,000 BDM
  2,500 OPFOR variants

Milestones



03/15/2011	07/22/2011
RFP Release	Contract Award

Point of Contact

Name: Mr. Andrew Echols

Organization: PEO STRI / PM TRADE

Phone: (407) 384-3860

Email: andrew.echols@us.army.mil

Funding

- OPA Total Contract Value: $20 Million
  FY 11 - 15

Current Contract/Original Developer/OEM (if recompete)

- Current Contract Type: FFP
- Contractor: Lockheed Martin GT&L

I-MILES Combat Vehicle TESS (CVTESS)

PM TRADE

Description/Summary of Program Requirements

I-MILES Combat Vehicle Tactical Engagement Simulation Systems (CVTESS)
provides live training devices for armored vehicles with fire control systems consisting of the Bradley Fighting Vehicle and Abrams Tank. CVTESS is an evolutionary upgrade from legacy Combat Vehicle devices, providing better training fidelity for force-on-force operations. It interfaces with training instrumentation systems providing casualty and battlefield damage assessments for After Action Reviews (AAR).





Acquisition Strategy

- Competitive STOC II Award
- Firm Fixed Price
- T & M CLINS for Support
- Base Award w/ Option Lots

Period of Performance

- Base period plus 4 options (FY11-FY15)

Milestones

01/26/2011



RFP Release

06/29/2011

Contract Award

Point of Contact

Name: Mr. Mike Bergman

Organization: PEO STRI/PM TRADE

Phone: (407) 384-5222

Email: michael.bergman@us.army.mil

Funding

- Possible funding: $100 Million

Current Contract/Original Developer/OEM (if recompete)

- Current Contract Type: FFP
- Contractor: TBD

I-MILES Individual Weapon Systems (IWS)

PM TRADE

Description/Summary of Program Requirements

I-MILES Individual Weapon Systems 2010

System provides real-time casualty effects necessary for tactical engagement training in Direct Fire force on force training scenarios and instrumented training scenarios. The IWS detector harness is instrumentable and compliant with CTC ICD's. Event data can be downloaded for use in an After Action Review (AAR). I-MILES IWS 2010 replaces Basic MILES Individual Weapon Systems (IWS) at home stations and Maneuver Combat Training Centers Army wide IAW Distribution Plan Version 5.09.5.



Acquisition Strategy

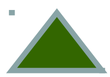
- Competitive STOC II Award
- Firm Fixed Price
- T & M CLINS for Support
- Base Award w/ Option Lots

Period of Performance

- Base Award in FY 11
- Options Lots FY 12-15

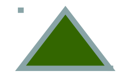
Milestones

03/07/2011



RFP Release

07/15/2011



Contract Award

Point of Contact

Name: Mr. David Brunat

Organization: PEO STRI/ PM TRADE

Phone: (407)384-5278

Email: david.brunat@us.army.mil

Funding

- Total Contract Value: $289 Million

Current Contract/Original Developer/OEM (if recompete)

- Current Contract Type: FFP
- Contractor: Cubic Defense Applications

PM TRADE Contact Information

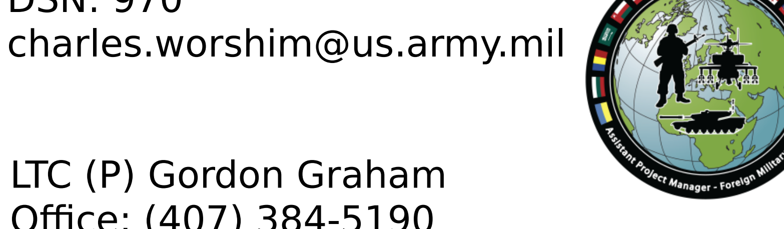




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craig.ravenell@us.army.mil

Your Job Today



- Listen closely to PCO and Program briefings for insights into program
- Optimize your one-on-one session to answer tough questions or raise issues
- Help us, help you – we want to issue a clear and concise RFP that enables Industry to propose innovative solutions.
- Questions…



CTC-IS Mod Program Overview



Description/Summary of Program Requirements

CTC-IS Modernization provides incremental upgrades to the CTC-IS infrastructure, voice, data and video at NTC and JRTC as well as life cycle technology refreshment of CTC-IS components to satisfy current and future force training requirements. Provides tools to establish high fidelity, cause and effect analysis of brigade and below collective training performance in full spectrum ops, in a variety of environments.

Live Training Transformation (LT2) Family of Training Systems (FTS) portal provides common products for reuse. New CTC-IS products will be added to the portal for future reuse.

Acquisition Strategy

- STOC II Delivery Order
- Full Open Competition
- CPAF with T&M CLINs

Period of Performance

- Base 2-Year award with 3 option years

Milestones

Jul 11	Mar 12
RFP Release	Contract Award

Point of Contact

PD: Ms. Anne Dunlap

Office: PEO STRI / PM TRADE

CS: Ms. Lovisa Parks

Office: SFAE-STRI-KOL

Contract Funding

- RDTE FY 11 - 16: $25 Million
- OPA FY 12 - 16: $220 Million

Current Contract/Original Developer/OEM

- Multiple contractors provide current CTC-IS capabilities. The LT2 FTS Strategy provides a portal to share common solutions among all CTCs



CTC-IS MOD Master Schedule

PEO STRI

Time Now

	FY11				FY12				FY13				FY14			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Milestones		Industry Day	Draft RFP	Final RFP		MS C; Contract Award										
Development/ Demonstration Phase							PDR		CDR							
Production Phase										PRR						
Deliveries																
National Training Center (NTC)			Site Visit				Site Access	Site Access		Site Access	Site Access	Site Access	Integration	Voice/Data		NTC IOC
Joint Readiness Training Center (JRTC)			Site Visit												Integ	Data
Joint Multi-Nation Readiness Center (JMRC)																

As of 21 Feb 11

CTC-IS Mod Phased Implementation



		Base: FY12	Base: FY13	Opt 1: FY14	Opt 2: FY15	Opt 3: FY16
CTC-IS MOD Architecture & Standards		Common Architecture and Standards Implementation				
NTC		Award		NTC IOC	JRTC IOC	
	Range Communications Systems (Voice Network -OCCS)	XXXX Radios, Infrastructure, Integration				
	Range Communications Systems (Data Network)	XXXX Radios, Infrastructure, Integration				
	Mobile Video Equipment and Network		Video, Network, Integration			
	AAR Theatre Mod		AAR, Network&Display, Integration			
	Future Ops & Combat System Communications Integration				Tactical Comms Integration	
JRTC						
	Range Communications Systems (Voice Network-OCCS)		XXXX Radios, Infrastructure, Integration			
	Range Communications Systems (Data Network)	XXXX Radios, Infrastructure, Integration				
	Mobile Video Equipment and Network			Video, Network, Integration		
	AAR Theater Mod		AAR, Network&Display, Integration			
	Future Ops & Combat System Communications Integration				Tactical Comms Integration	

CTC-IS Mod Overview (concluded)

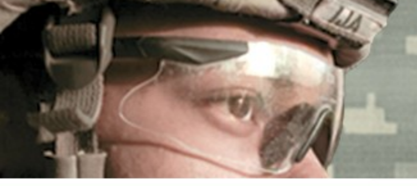


- Primary focus of Basic Contract – NTC Infrastructure/Data/Voice Comms System replacements and JRTC Infrastructure/Data Comms System replacement
- Interface with existing CTC-IS, TESS, and other training systems
- Phased O&M Transition to existing Warfighter FOCUS sustainment
- Systems become part of the LT2 Family of Training Systems Product Line for PDSS and PPSS
- Use of IDE and JDIF

Engineering Overview
Commonality, Reuse, and Extensibility



- Maximize commonality of technical solutions for the CTCs
  - Leverage Commercial technologies and standards
  - Modular & open architecture; not mandatory to use same architecture for voice & data
  - Approach supports Total Life Cycle Cost Reduction
- Maturity of wireless networking technology proposed solutions must be at TRL 8 and MRL 8
  - Ready for LRIP with low risk
- Evaluate reuse of existing infrastructure, CTC-IS components, and Army applications
- Easy to operate and maintain with minimum personnel, materiel, and equipment.
- Spectrum
  - Future Availability, reference Spectrum Study with support of JSC
  - RFP will not mandate a specific spectrum COA; must be viable and feasible solution
  - Operate in training environment without causing or receiving interference
  - Level of effort to obtain is low risk and includes ASMO/regulatory agency coordination



Spectrum Concerns



Access Network Spectrum COA	Description	Concerns
DoD spectrum	DoD managed spectrum 380-400MHz 1755-1850Mhz	Limited availability Shared with LMR Narrow band mandate 1755-1850 MHz being considered for repurposing
Shared Spectrum	700MHz/Public Safety	Schedule No precedence for shared access MOU with State, local Public Safety entities
Leased Spectrum	Commercial/Cellular available frequency	Availability Long term agreements
	1710-1755 MHz currently used for NTC and JRTC GSM network	Downlink is in 1755-1850 MHz being considered for repurposing
Leased Services	Commercial Carriers	Availability Long term agreements Provision of Coverage/Capacity/QoS
Unlicensed Spectrum	ISM bands	Spectrum not dedicated Rules by FCC/NTIA limit performance
	TV White Space	Spectrum not dedicated No currently certified products Managed Access/Event Coordination Rules by FCC/NTIA limit performance

Engineering Overview
Operational Effectiveness and

- Scalable system supports CTC live training use cases (70x40 KM area)

  - Threshold/Objective: 10K/15K live entities, 65K/100K virtual, *5K voice, 500 O/Cs*

  - Provide capacity/throughput analysis to assess worst case scenarios

- Provide LT2 Standard Interoperability solutions integrated with CTC-IS systems

  - Common TESS ICD (two-way radio/I-MILES and NLOS TESS data exchange)

  - RCS Voice interoperability with deployed PM LMR network

  - CTIA IPU ICD (communicate with CTC-IS EXCON via the XML interface)

  - Integration of Observer Controllers with CTC-IS Operations Center

  - No degradation to External Systems (i.e. LBA/LUH)

- Coverage ($\geq$98%) is scalable to support the different training environments

  - NTC & JRTC expansions; eliminate gaps in coverage

  - Mobile infrastructure to enhance coverage and capacity

Engineering Overview
Functionality and Services



- Integrated Player Unit Radio Characteristics
  - Battery life must last a minimum of 48 hours and objective of 96 hours.
  - Over the air programming or updates
  - IPU radios shall weigh less then 2 lbs including batteries
  - IPU size shall be less then 48 cubic inches
  - IPUs shall support CTC-IS position location, Real-time Casualty Assessment reporting, and weapons platform mounting requirements
- Network and Exercise Management Features
  - Support prioritized Quality of Service levels with acceptable latency
  - Broadcast alert messages
  - Provide system control to monitor and configure the network and components
  - Provide fault management features

Engineering Overview
Functionality and Services (cont.)



- Voice Radio Features
  - Push-To-Talk
  - User talk groups (i.e. O/Cs, Role Players, TAFs)
  - Group Calling (i.e. broadcast, emergency, priority override)
  - Over the Air Programming
  - Battery life must equivalent or better then OCCS legacy radios
- Ability to add new features and services via technology insertion without impacting the rest of the system
  - Clear evolutionary technology growth path for the system
- AAR Capabilities shall be enhanced to provide new features and services
- OC Data Exchange Requirements to be determined



Engineering Overview Fielding and Transition



- Provide sufficient documentation and technical support to transition operation and maintenance to WFF
- System must meet all environmental, safety, health hazard, and EMI/EMC requirements
- System must meet availability and reliability requirements
- Site activation will not interfere with existing training environment
  - provide schedule of system deployment overlayed upon exercise operations at each CTC
  - synchronize system deployment with CTC-IS CPM release activities
  - support Product Qualification Tests and necessary regression testing
  - replace legacy networks when newly installed network has been validated for operational use
  - provide transition plan document early in the contract schedule

Information Assurance (IA) Overview



- <u>Component Security Requirements</u>
  - DOD 8500.2 controls
    - EXCON/SYSCON - MAC III SECRET
    - Unclassified Instrumentation – MAC III Sensitive
  - All wireless transmissions must be encrypted to the level of sensitivity of the data (Voice and Data)
    - FIPS 140-2 encryption for Unclassified
    - Type 1 encryption for Classified
- <u>Certification and Accreditation</u>
  - Components will go through a delta certification to validate the implemented controls
  - Components will be included in the existing CTC-IS accreditation

IA Overview (cont.)



- Components must be configured IAW DOD 8500.2 and use approved products IAW Army Regulation 25-2, i.e. Firewall, Router, OS, Database, IDS, and Antivirus
- Components must meet DOD 8500.2 Security Controls and be certifiable without waivers or exceptions
- Components fielded must fall under the CTC-IS accreditation, without impacting ATO
  - Developer must determine which controls apply to the components
- System components must be configured IAW DISA STIGs
- System must be IAVA compliant and remain IAVA compliant
  - IAVM plan should address all IAVAs, STIG changes, and required upgrades will be packaged and provided to the fielded systems

Contracting Overview



- Intent of Industry Day
  - Elicit feedback from Industry on the content of requirements, schedule, etc… in order to improve our processes & RFP documents
- Procurement Integrity
  - Government duty to treat all offerors fairly
  - Government duty to safeguard proposal & company proprietary info from release
- Comments today will be incorporated as appropriate into the Draft RFP to be released April 2011
- Line of Communication for the CTC-IS Mod RFP are between Government Contracts' Personnel and each of the potential Offerors
- No direct communications with NTC/JRTC/PM TRADE personnel. Intent is to manage communications not stop them

Contracting Overview (cont.)

PM TRADE

- RFP; STOC II-10-KOL-046, CTC-IS Mod
- Primary Milestones:
  - Draft RFP Release with Government's Responses to Industry Questions
  - NTC/JRTC Site Visit
  - Round 2 One-On-One Discussions with Industry
  - Issue amendments on Draft RFP as a result of Industry Questions
  - Final RFP
  - Issue Final Amendments with Government's Responses to Industry Questions
  - Proposal Due

Contracting Overview (cont.)



- Source Selection Factors
  - Factor 1 Technical – page limit 60 pages
    - Sub-Factor 1.1 Network Capacity, Operational Effectiveness and Interoperability
    - Sub-Factor 1.2 Functionality and Services supported
    - Sub-Factor 1.3 Commonality, Reuse, and Extensibility
    - Sub-Factor 1.4 Fielding & Transition Management
  - Factor 2 Management Approach – page limit 50 pages
    - Sub-Factor 2.1 Overall Management Approach
    - Sub-Factor 2.2 Risk Management
    - Sub-Factor 2.3 Total Ownership Cost Management

Contracting Overview(cont.)



- Factor 3 Cost/Price – unlimited, combination of word and excel
  - Standard Cost Proposal Template
  - Cross-reference matrix (SOW/Spec/BOE/Section B)
  - Section B (Supplies or Services): All CLINs and SLINs (including Options)

Contracting Overview (cont.)

- CTC-IS Mod Reference Library – on LT2 Portal
- CTC-IS MOD Document Repository will require registration but not government sponsorship
- Web Address

  https://www.lt2portal.org/

To be open by mid-March 2011



Contracting Overview (Concluded)



- The Contracting Officer for the CTC-IS MOD is:

  Ms. Christie Martinez – (407) 208-3218 or Christie.P.Martinez@us.army.mil.

- The Contract Specialists are:
  - Ms. Lovisa Parks, Lovisa.Parks@us.army.mil
  - Mr. Matt Sanders, Matthew.Sanders@us.army.mil

- Submit suggestions for site visit value-added content
  - Who to talk to
  - What to see
  - Take aways



Rules of Engagement One-on-Ones



- One-on-One Discussions will be conducted in accordance with FAR 15.201 "Exchanges with Industry Before Receipt of Proposals"

- Each Company will have 30-minutes with Government Team to improve its understanding of the requirements

- No Capability Briefings at the One-on-One meetings

- Information provided to a potential offeror in response to its request for information must not be disclosed if doing so would reveal the potential offeror's confidential business strategy, and is protected under FAR 3.104 or subpart 24.2.

- A summary of information provided during this Industry Day conference will be made available via STOC II Portal, the STRIBOP.



QUESTIONS



Typical Questions



<u>RFP will cover Voice, Data, Video capabilities at NTC and JRTC</u>

Q: Does Voice, Data, and Video have to converge onto a single Network?
A: The Architecture can incorporate multiple network implementations based on requirements, integrated but not necessarily the same.

Q: How should the material solution for a future capability be addressed?
A: The Government is looking for innovative technical approaches to integrating existing and future systems, while maximizing reuse and addressing shortfalls.

Q: How are Environmental, Safety, and EMI MIL-SPEC/STDs referenced in SPEC/SOW applicable?
A: Commercial product certifications may be substituted if they meet operational requirements. Further testing may be required based on proposed solutions.

Typical Questions



Q: Who's responsible for the Information Assurance certification?
A: SOW and Spec cover the contractor responsibilities for accreditation and certification of the system appending the existing site accreditation.

Q: Will there be a security requirement for Secret or Top Secret?
A: CTC-IS Mod will have interfaces with the CTC-OIS secure network. There will be a DD254 requirement on the Delivery Order and clearances required for access to B990/NTC Secret System High areas for testing interfaces.

Q: Is the government directing a spectrum requirement?
A: No, the contractor must propose a feasible, innovative solution based on available spectrum at each site. Spectrum Study will be made available.

Q: Will Government Documents from CTC-OIS, WFF, CPM sources be made available?
A: Documentation will be made available on the LT2 Portal, in an unclassified area. LT2 documents are already available to STOC II contractors who have registered. The government will be adding to

Typical Questions



Q: What will be the process for following CPM lead in releases? How does this work with requiring max use of COTS and max reuse of LT2 products?
A: The CPM Operations Guide provides the process for coordinating releases. LT2 portal will provide access to LT2 Family of Training Systems core assets, components and documentation for potential reuse.

Q: What is the required CTC Transition process for system integration? How will infrastructure reuse impact on-going training operations?
A: NTC requires both the new and legacy systems to run simultaneously for 2 rotations prior to cutover. This is to ensure the new system provides the capabilities expected.
Contractor's innovative approach to reuse infrastructure will have to consider this requirement.

Q: How/when will Demos be conducted?
A: Demos have been removed from the pre-award phase, however, a demonstration of the capability will be performed as part of the Production Readiness Review to ensure the proposed hardware and software solutions meet the requirements.

Q: How will existing infrastructure information be made available?
A: Via the LT2 portal.



Closing Remarks



COL Flanagan	Project Manager TRADE
LTC Chuck Worshim	Product Manager CTIS
Anne Dunlap	Project Director CTC-IS Mod